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218	1180 0.040670000001918
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711	1213 0.0888100000019145
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74	1248 0.02300000000019155
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524	1284 0.0629400000019245
957	1285 0.0629400000019245
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347	1317 0.0304700000019152
764	1318 0.0304700000019152
614	1319 0.0304600000019152
994	1320 0.0304600000019152

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237	1633 0.010720000001916
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316	1635 0.010710000001916
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575	1737 0.0130600000019159
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878	0 0
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521	1808 0.0531800000019219
451	1809 0.0531800000019219
873	1810 0.0531700000019219
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557	0 0
670	0 0
511	0 0

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565	0 0
426	0 0
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490	1842 0.010070000001916
994	1843 0.010070000001916
648	1844 0.010070000001916
501	1845 0.010060000001916
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634	1878	0.03703000000	19169
648	1879	0.03703000000	19169
198	1880	0.03702000000	19169
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516	1912	0.08334000000	19166
662	1913	0.08334000000	19166
766	1914	0.08333000000	19166
449	1915	0.08333000000	19166
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564	0 0
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255	1982	0.115080000001904
243	1983	0.115070000001904
959	1984	0.115070000001904
118	1985	0.115070000001904
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521	2089	0.087470000001915
928	2090	0.087460000001915
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720	0	0
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668	0 0
543	0 0
843	0 0
214	0 0
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550	0 0
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913	2227 0.04969000000019208
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611	0 0
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667	234 0.0329200000019157
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722	548 0.009550000000191603
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93	775	923
907	472	766
124	51	163
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789	661	422
289	778	143
836	157	404
268	467	481
848	671	863
571	169	525
289	126	412
755	914	962
295	906	112
473	207	40
48	270	62
815	665	729
795	832	204
784	163	65
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90	60	449
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286	365	106
687	35	395
461	642	873
679	11	951
365	868	845
420	681	7
782	424	338
969	152	964
994	764	89

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158	410	553
604	129	631
982	982	838
332	754	800
115	275	253
112	671	27
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193	965	861
143	693	919
307	808	84
27	369	442
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940	464	553
377	801	90
148	638	46
812	528	137
484	190	536
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171	613	446
693	462	84
360	323	175
402	953	386
359	465	421
795	820	855
475	714	970
689	46	975
463	979	813
783	471	266
549	560	148
995	481	890
661	248	3
117	18	126
916	394	333
661	454	64
717	337	18
329	641	156
126	130	568
119	878	131
919	578	853
557	854	394
239	12	632
179	135	573
853	6	344
492	774	300
643	803	526
750	714	782
249	868	567
640	517	999

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274	7	541
587	70	90
80	539	203
446	477	283
460	635	4
269	477	723
606	170	512
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828	247	143
281	504	946
850	334	160
904	219	768
760	704	734
84	318	176
580	451	39
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643	55	361
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577	203	346
555	760	471
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258	244	144
123	557	64
237	157	774
990	523	853
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596	544	420
908	639	450
233	202	773
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70	206	592
911	784	519
494	970	855
896	457	272
467	407	546
235	307	687
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488	607	864
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401	168	952
183	80	740
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149	442	880
905	999	896
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358	261	298
813	878	819
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242	53	228
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130	904	247
930	977	675
148	286	626
202	448	939
706	455	221
644	625	525
521	487	471
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316	787	524
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271	666	593
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225	584	667
82	480	147
103	277	35
546	719	856
265	794	197
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879	724	972
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266	190	834
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233	404	466
391	744	159
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177	559	785
121	822	892
540	734	172
18	93	578
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760	466	290
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639	261	659
357	189	774
447	362	4
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693	125	228
389	365	685
222	981	787
350	562	327
162	451	326
744	1000	144
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410	752	216
65	755	885
424	509	867
445	33	714
908	869	811
310	720	771
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680	93	413
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277	941	811
759	98	344
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278	826	672
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352	252	641
226	538	893
407	657	769
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75	948	6
908	124	806
247	716	753
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660	759	407
872	871	932
690	814	713
682	264	258
106	711	365
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917	352	701
372	152	238
535	147	181
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558	905	349
810	556	351
978	727	409
645	959	386
558	394	685
396	803	414
89	312	349
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817	985	372
752	727	762
43	772	360
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768	523	36
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338	286	268
744	162	390
38	541	233
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374	74	258
108	220	659
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873	720	77
147	895	899
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29	899	737
13	866	915
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616	515	185
649	811	519
470	714	683
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230	390	25
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471	428	88
211	772	364
34	991	140
234	715	690
883	872	557
206	325	829
864	1000	116
82	920	855
573	822	631
415	267	629
133	70	513
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432	907	943
967	160	200
984	524	331
476	957	659
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434	37	509
881	639	598
381	620	725
512	102	293
178	600	694
821	775	66
887	898	488
564	99	44
525	745	866
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211	937	740
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876	199	269

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686	299	5
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113	357	542
380	409	150
130	302	813
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798	542	312
301	89	627
622	840	447
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346	211	980
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39	994	819
258	133	631
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322	851	417
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96	519	402
804	785	739
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829	407	183
382	424	929
487	263	743
808	365	355
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521	672	8
211	244	837
846	187	273
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72	883	210
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15	722	303
292	588	428
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103	284	761
732	271	299
781	984	868
558	57	145
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499	163	648
537	970	600
97	997	802
294	235	739
83	735	179
284	656	516
221	155	424
835	48	831
616	106	408
677	152	549
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480	707	895
145	945	94
76	84	380
434	471	863
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554	592	715
446	15	652
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818	569	865
193	421	493
254	309	43
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285	140	359
423	794	71
45	49	225
616	116	191
266	124	208
835	188	826
175	221	690
780	328	24
877	884	312
535	181	163
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762	917	453
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229	216	264
539	850	454
322	575	298
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987	506	813
336	194	558
407	158	869
63	796	529
232	505	855

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252	594	653
427	889	126
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15	250	762
42	604	849
577	776	412
641	669	831
665	470	706
396	124	702
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444	178	589
958	614	794
26	561	265
335	766	286
249	393	909
755	22	193
328	303	730
91	763	458
982	588	772
948	679	413
425	293	466
887	572	720
821	85	638
56	199	216
795	307	904
193	64	78
798	642	103
510	246	83
989	1	63
132	624	674
670	79	530
853	911	121
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203	273	105
515	297	457
202	790	172
695	798	38
958	916	695
31	899	219
658	690	109
612	34	768
334	943	397
784	373	55
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166	955	621
979	475	352
607	578	835
503	623	282

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75	53	72
515	699	113
275	110	59
487	489	48
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816	337	364
382	995	294
998	194	807
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446	516	398
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428	203	130
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246	341	706
426	518	153
954	505	372
228	689	974
651	15	359
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655	389	782
882	554	497
954	44	535
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328	910	867
271	122	699
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662	305	293
351	580	272
222	695	422
323	365	788
210	473	122
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161	888	945
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700	224	642

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393	653	914
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161	42	243
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278	524	664
155	240	889
483	171	181
383	377	814
214	221	769
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239	880	899
145	176	39
295	311	244
35	779	675
832	38	596
258	11	277
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594	561	707
800	209	825
252	427	218
285	154	286
11	892	292
930	886	849
776	567	558
173	214	558
417	676	791
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215	44	532
27	398	626
37	469	794
305	976	773
76	973	998
763	422	348
150	384	534
682	389	186
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172	676	930
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374	790	312
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527	842	765
475	737	923
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327	685	183
920	398	507
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23	707	48
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516	681	42
248	207	886
544	451	228
676	293	482
813	215	650
950	383	474
607	756	497
121	75	356
711	51	937
893	173	921
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956	245	753
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418	721	325
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169	842	973
616	166	478
251	686	893
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580	54	132
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777	84	500
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95	18	212
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335	322	760
249	239	165
251	425	291
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623	988	329
780	582	388
107	175	847
714	354	889
400	102	681
879	380	342
657	583	345
56	5	470
762	398	76
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522	237	862
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825	34	162
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519	497	138
485	373	693
597	179	47
857	215	631
860	19	832
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612	840	118
28	853	914
402	556	65
906	480	197
184	850	737
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463	339	622
297	112	945
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225	890	430
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720	422	915
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768	7	615
409	607	961
955	298	400
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49	563	235
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257	403	401
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568	506	469
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21	509	333
86	90	362
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497	684	998
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633	366	677
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466	993	983
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527	509	502
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792	896	379
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697	433	9
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384	96	564
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369	41	816
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485	364	419
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164	532	175
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593	634	389
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725	291	687
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711	384	320
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266	699	359

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718	798	95
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732	929	234
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217	399	719
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276	221	299
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442	513	823
504	461	886
119	664	935
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409	531	984
526	696	332
266	128	574
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455	878	389
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817	704	365
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36	489	588

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316	546	863
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449	996	692
588	458	663
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431	1000	794
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441	311	736
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71	897	899
796	521	447
102	53	917
644	395	808
57	19	644
899	707	767
167	201	889
858	612	908
56	720	958
205	145	821
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882	8	104
896	734	819
698	698	58
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212	214	933
639	741	449
490	545	909
744	550	52
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541	651	974
596	470	151

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570	773	796
375	318	795
819	905	994
371	856	801
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557	579	493
114	22	540
926	22	374
16	28	318
832	692	825
750	657	255
954	175	778
904	188	506
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981	226	615
351	683	679
141	392	986
855	368	270
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423	6	291
478	988	214
817	622	200
547	844	339
832	301	39
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407	667	993
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487	543	937
986	538	884
27	129	183
863	35	383
181	812	605
63	452	487
341	310	92
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618	271	347
956	664	340
946	839	944
267	331	727
264	562	954
456	453	173
857	773	863
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840	345	863
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491	565	197
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879	800	538
534	533	505
567	92	743
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213	117	320
125	440	893
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687	566	29
708	14	209
667	479	994
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526	938	96
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794	14	126
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345	495	615
477	860	726
535	238	517
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479	684	474
697	119	531
173	430	594
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84	363	954
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192	629	127
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153	888	708
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341	32	635
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338	967	90
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285	267	447
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987	453	718
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342	910	388
772	756	785
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633	623	688
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223	161	159
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543	327	750
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727	885	474
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688	172	793
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166	384	898
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313	637	195
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427	414	979
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394	215	817
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35	75	851
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325	431	807
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465	388	303
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147	153	948
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377	703	876
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657	983	623
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426	382	155
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588	370	572
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856	748	860
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262	706	180
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236	365	241
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503	581	108
143	56	240
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688	487	295
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587	456	199
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639	678	975
314	7	808
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412	546	180
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344	701	420
233	429	826
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33	808	797
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268	770	152
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587	631	876
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745	730	481
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116	798	941
317	292	718
520	622	890
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528	461	458
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745	832	624
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716	353	36
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29	242	473
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448	362	616
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522	488	180
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413	643	973
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336	926	825
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278	260	42
232	814	77
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722	217	435
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662	601	328
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543	340	514
426	72	119
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778	396	587
647	788	467

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321	359	855
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415	519	226
170	422	501
42	74	297
737	553	179
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716	256	135
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71	456	696
562	866	144
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832	645	606
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221	560	119
908	272	827
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614	458	355
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142	286	70
120	50	266
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473	835	699
363	880	692
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72	194	735
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915	963	419
169	435	967
201	372	927
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390	427	54
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632	401	139
596	671	933
714	196	414
818	848	230
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420	309	995
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726	905	205
123	463	856
830	173	537
366	791	319
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436	754	863
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31	258	519
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707	920	937
794	907	144
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725	885	671
878	453	58
912	328	351
787	985	556
780	807	365

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416	93	205
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419	307	872
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476	502	281
655	871	874
112	267	193
733	767	579
169	796	634
211	575	761
220	494	678
590	167	29
652	741	990
469	107	147
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688	312	484
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139	190	611
363	684	974
627	817	395
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759	458	395
634	887	983
253	651	131
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47	547	885
139	481	485
798	289	450
825	82	952
715	875	484
703	26	572
243	900	899
415	723	73
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101	255	547
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265	226	149
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510	251	77
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621	459	970
925	813	394
152	375	716
907	855	713
114	692	757
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689	235	991
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778	608	380
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577	533	632
768	211	467
193	278	99
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578	83	321
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615	583	263
326	286	313
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703	369	797
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713	159	716
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547	698	62
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229	300	173
217	188	764
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483	236	615
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187	165	372
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745	775	805
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476	303	157
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955	806	338
236	703	236
704	312	865
611	293	135
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365	131	91
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675	574	194
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694	190	120
718	769	163
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137	872	573
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213	669	299
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317	239	390
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323	472	992
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452	325	901
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422	196	994
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641	879	543
378	779	449
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332	857	255
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281	175	286
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548	520	931
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171	557	617
994	516	652
46	403	899
505	400	775
373	272	105
587	680	981
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927	193	63
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586	975	936
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771	236	773
388	395	526
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474	12	495
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817	197	854
737	390	143
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374	887	584
506	234	667
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661	928	395
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726	322	275
963	800	100
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385	82	149
633	610	952
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132	894	833
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776	161	940
384	592	95
666	341	329
693	154	346
184	14	304
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375	319	887
420	574	544
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185	499	228
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606	527	312
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712	286	413
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504	696	565
314	894	71
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681	112	221
137	335	271
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627	723	752
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373	887	903
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454	727	672
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832	770	939
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767	772	224
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615	503	578
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327	102	930
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239	586	441
153	383	907
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253	742	385
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539	743	976
634	34	611
170	799	99
701	668	756
412	553	827
301	794	527
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159	333	602
470	804	594
652	122	874
669	48	373
462	324	908
840	976	269
16	548	547
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234	600	596
506	665	189
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22	165	878
665	519	678
873	680	268
384	598	877
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906	809	778
89	796	758
503	170	303
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279	164	384
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392	999	30
870	492	897
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99	315	139
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885	200	606
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361	515	458
396	220	304
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32	502	564
528	774	259
712	551	947
464	817	601
577	715	898
381	596	13
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143	65	734
47	311	810
929	440	144
685	472	231
703	125	741
954	5	74
995	870	814
345	545	699
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55	129	429
241	806	298
448	537	85
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97	431	112
451	427	993
371	522	238
158	428	239
587	600	650
786	446	521
683	190	492
305	875	959
716	445	667
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304	771	524
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350	542	766
707	135	946
916	898	702
191	302	854
296	663	739
212	796	940
267	793	557
154	736	983
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3	502	305
363	624	702
211	84	905
756	624	56
547	390	978
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461	286	241
145	740	623

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327	914	44
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580	897	858
193	514	153
674	506	763
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113	309	848
662	311	284
451	701	625
704	599	948
597	239	868
193	301	409
282	69	698
47	205	53
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577	174	148
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161	728	853
953	13	843
127	527	726
303	893	83
235	150	735
24	167	568
716	301	87
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796	617	222
800	875	175
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663	888	289
214	803	190
620	745	313
618	106	588
398	201	655
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304	808	15
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483	30	361

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256	903	277
792	562	731
246	593	123
538	69	214
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376	302	358
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553	228	775
85	80	448
197	682	558
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83	408	876
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145	747	900
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303	438	743
393	180	268
448	472	400
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231	451	581
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218	472	600
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781	738	614
624	55	585
745	326	105
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673	442	711
505	189	594
737	672	851
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305	250	819
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611	271	760
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236	535	263
877	363	866
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33	714	284
7	752	757
768	372	541
527	325	560
940	441	724
287	367	780
241	63	172
952	938	421
950	149	138
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87	466	219
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511	705	252
267	180	192
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698	680	169
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437	327	867
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330	571	853
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761	673	52
740	296	312
356	809	32
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386	298	140
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399	455	134
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843	881	492
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613	252	581
420	286	277
534	471	496
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379	526	183
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182	929	208
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137	503	260
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683	605	973
182	876	980
966	453	881
61	804	797
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617	559	676
281	42	915
655	544	418
744	697	922
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92	486	580
781	122	126

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380	730	993
840	179	582
577	982	145
808	367	977
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703	829	647
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362	471	514
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17	788	154
169	815	716
866	680	561
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413	559	44
559	666	907
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438	561	195
992	287	200
909	695	527
357	722	216
136	778	590
137	803	358
697	237	959
491	969	539
297	404	257
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266	918	624
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937	278	429
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657	343	884
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513	56	220
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405	763	19
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346	55	452
671	690	140
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74	483	819
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186	835	208
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185	880	747
487	913	887
532	735	74
880	276	134
218	428	194
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571	667	946
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713	537	604
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479	655	101
135	432	48
770	59	324
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703	103	622
917	283	552

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776	949	894
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591	857	617
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276	236	591
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847	544	47
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337	238	838
747	559	515
655	593	274
184	308	21
126	783	720
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285	539	107
142	267	370
830	621	410
62	871	362
460	491	844
724	305	640
91	653	533
388	46	806
850	664	884
674	555	872
412	542	999
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762	843	619
469	918	586
753	241	723
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178	403	126
81	171	6
825	898	141
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637	963	463
669	270	736
948	283	453
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420	497	152

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994	962	252
715	461	551
369	336	762
873	568	238
394	903	51
123	189	88
664	60	549
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336	513	356
959	715	955
562	440	673
606	664	361
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560	301	935
622	76	716
216	691	683
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66	731	567
471	77	732
637	27	596
196	58	622
808	959	776
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691	32	914
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548	121	823
321	717	418
647	496	357
754	136	589
277	103	544
555	365	891
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798	200	561
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774	523	989
852	162	463
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94	690	514
669	843	9
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380	874	580
627	786	362
78	805	163
179	202	576
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744	504	833
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778	716	940
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626	468	552
153	592	686
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372	734	587
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641	487	386
744	715	630
420	430	104
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268	932	625
761	760	993
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167	57	525
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257	378	616

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316	38	772
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122	608	876
893	170	220
467	430	459
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97	517	166
376	706	159
51	761	347
836	143	859
430	870	182
168	867	491
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167	67	950
707	774	309
273	678	250
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987	588	980
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665	111	301
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745	514	342
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487	829	927
159	638	895
653	604	428
485	690	311
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687	355	504
806	752	88
893	771	566
48	117	271
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772	443	757
449	200	472

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671	380	628
270	490	839
706	706	160
486	65	251
413	242	59
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272	82	785
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555	208	683
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843	222	727
408	223	392
586	426	275
433	514	762
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154	37	959
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544	311	667
381	716	930
804	799	304
263	644	491
525	653	667
315	71	334
895	840	569
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870	49	819
725	142	127
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136	865	913
726	206	711
346	277	363
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940	747	501
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671	521	212
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112	80	658
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230	37	436
755	590	866
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785	335	67
435	433	396
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427	90	925
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661	149	932
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239	639	561
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37	591	679
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551	444	731
528	924	512
317	506	780
702	112	458
677	546	317
25	594	21
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871	158	628
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862	221	913
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387	746	114
530	651	44
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354	394	255

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374	893	947
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697	848	133
893	858	781
874	793	384
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846	304	972
597	769	889
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383	431	998
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112	634	475
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992	722	140
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726	511	221

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444	187	477
245	299	26
421	173	607
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213	341	695
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595	959	228
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676	634	608
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421	681	71
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493	436	85
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417	125	309

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986	35	225
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248	778	353
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266	187	877

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519	951	887
791	245	872
125	616	380
737	825	229
361	21	584
605	322	611
703	904	931
353	224	408
806	525	200
56	897	661
163	483	8
955	546	262
419	853	106
105	16	117
723	244	280
893	705	815
632	400	775
391	199	696
927	167	375
480	633	721
320	717	720
367	575	343
222	54	476
970	187	117
153	599	536
815	278	980
776	914	468
386	72	145
887	773	285
960	29	27
535	940	221
386	433	947
45	357	318
938	672	299
987	663	214
306	886	601

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43	352	367
901	935	646
576	481	803
706	910	673
97	436	895
897	768	814
590	418	922
663	839	243
817	47	410
579	229	535
332	153	917
491	140	589
502	133	499
302	470	524
163	880	410
274	891	228
320	57	766
788	219	343
263	381	161
125	732	889
884	645	253
916	375	758
757	254	944
954	396	636
316	289	596
399	148	607
481	544	804
183	260	820
770	545	935
222	229	760
429	25	402
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272	895	506
653	518	285
285	367	662
131	120	578
395	865	881
555	292	189
733	702	386
81	147	478
471	183	26
832	173	19
882	706	871
771	775	901
102	476	674
520	899	541
806	287	73
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880	875	734

214	526	365
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676	830	983
907	101	842
644	897	415
708	272	738
628	454	464
163	214	451
493	923	861
53	467	356
15	953	299
286	669	828
154	331	584
506	74	647
339	261	446
700	163	38
659	945	204
922	900	422
918	699	313
562	596	917
536	624	364
628	893	149
191	6	229
235	202	589
155	123	28
818	472	601
6	794	408
471	395	170
800	741	54
878	16	971
516	240	736
668	618	451
931	712	369
298	157	158
810	72	391
263	768	425
42	748	875
713	557	450
157	713	877
842	829	800
96	961	638
906	720	963
501	135	153
578	888	761
880	356	638
251	662	971
780	185	974
277	837	269
744	451	331
287	512	906

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168	552	353
429	763	281
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762	834	202
813	554	52
907	63	292
826	467	125
370	810	917
280	215	624
248	357	446
878	958	154
442	84	758
266	999	423
341	5	726
56	630	618
130	475	606
502	963	28
240	744	384
720	446	390
437	150	196
305	673	756
416	885	524
49	19	471
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870	134	463
400	315	181
947	798	741
19	394	42
419	286	215
418	370	639
369	830	850
875	684	333
971	641	746
95	82	104
136	561	322
964	371	611
922	321	132
210	138	1000
456	287	927
362	645	247
310	279	297
480	221	460
863	643	98
131	430	322
83	853	364
638	884	481
368	103	916
605	497	50

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147	786	804
455	304	341
863	749	376
161	439	892
458	775	286
637	819	404
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979	353	783
248	973	62
768	366	871
348	725	821
326	937	715
561	831	228
141	506	2
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806	698	33
55	862	602
995	961	616
102	816	81
669	855	979
927	96	384
153	814	715
72	133	839
219	724	636
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189	439	262
78	90	276
30	361	505
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853	225	122
635	893	977
250	215	58
266	36	926
992	735	213
195	484	786
967	172	8
480	561	25
467	592	413
351	898	383
880	531	461
598	867	556
718	585	832
660	575	387
727	924	51
337	87	356
711	483	878
367	304	830

405	374	665
745	816	302
212	547	318
676	387	153
466	42	516
658	478	900
955	955	598
622	754	638
975	131	506
58	641	63
506	160	228
632	194	494
539	621	417
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70	52	185
546	519	693
488	54	6
626	413	997
233	431	268
28	771	686
444	155	907
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670	767	505
131	425	507
570	553	350
101	77	260
461	218	235
705	528	749
879	47	411
874	512	851
732	735	942
123	815	882
959	621	685
845	819	935
502	496	636
138	311	526
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74	984	938
320	199	938
126	695	436
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302	400	338
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469	790	104
223	264	400
301	204	33
761	742	384
886	309	232
157	306	752

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327	201	744
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239	499	368
539	667	643
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700	848	136
672	793	742
587	562	645
123	525	957
178	974	152
25	975	4
937	463	817
521	746	859
447	919	808
32	467	785
622	687	469
621	551	913
535	303	56
3	360	12
220	666	574
477	709	526
217	162	340
640	617	551
785	827	103
278	226	522
935	556	743
508	149	839
489	558	71
887	138	673
596	935	104
806	949	728
286	971	211
930	463	953
93	630	718
566	484	372
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535	716	452
917	360	165
736	636	799
103	978	672
668	45	330
448	980	879
23	640	903
959	653	741
791	416	520
769	924	722

700	77	881
243	62	867
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211	551	983
60	828	486
282	73	586
36	119	152
494	436	266
823	224	64
712	127	945
646	615	713
78	51	549
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111	149	444
290	460	90
568	900	826
256	510	991
582	381	806
571	207	642
616	68	839
804	589	411
293	566	584
271	983	425
585	490	648
603	573	618
709	852	624
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239	104	618
602	712	235
908	155	845
908	177	6
793	308	561
681	998	895
507	298	565
49	672	20
344	980	456
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666	440	813
515	566	133
441	339	502
997	364	476
228	325	962
290	811	266
58	676	502
730	965	959
408	838	433
599	259	733
780	720	646
490	890	385
841	926	390

76	241	307
394	511	582
737	469	995
706	702	170
838	426	482
149	937	123
855	108	729
348	843	81
417	218	292
831	739	83
578	97	533
877	630	436
843	984	455
25	319	17
86	894	205
564	590	942
812	989	954
910	987	819
662	376	46
227	625	294
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560	776	606
285	962	444
694	307	601
669	478	437
360	263	950
524	854	276
998	667	398
130	316	111
362	216	255
391	617	360
809	735	413
287	527	766
600	927	629
146	766	683
354	242	157
383	950	114
744	351	772
19	588	888
334	431	108
143	924	394
190	304	338
242	508	744
672	721	384
185	925	575
295	500	549
363	424	75
602	627	914
789	295	914
236	791	795

173	954	744
306	105	4
236	957	463
993	113	382
414	359	230
378	560	427
198	725	89
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681	189	945
481	402	657
425	654	718
597	500	768
641	527	468
219	60	544
87	18	312
694	189	269
685	59	736
135	39	67
707	834	336
737	273	917
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454	569	107
665	818	860
463	738	34
607	627	313
193	254	249
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677	797	344
922	938	616
299	538	667
80	552	902
552	160	305
342	281	450
853	30	372
57	870	969
350	529	60
402	515	228
735	41	286
564	31	607
860	180	279
492	14	928
194	31	187
780	56	115
9	499	621
447	492	959
277	268	575
23	220	410
557	545	671
87	346	159
264	636	777

346	483	749
172	362	664
92	864	840
783	218	121
593	394	17
608	936	550
328	288	764
680	485	961
517	936	117
905	108	333
676	517	68
986	311	17
873	276	778
943	833	405
383	888	3
937	612	152
655	127	58
610	937	349
14	314	646
789	303	427
548	188	404
155	108	702
54	255	731
648	736	661
773	386	103
7	298	598
959	581	972
613	250	629
276	67	228
720	973	645
372	732	974
352	396	646
649	876	781
949	884	5
422	8	392
398	485	552
247	655	17
696	831	723
103	583	938
776	880	42
475	982	283
734	277	652
335	69	991
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465	658	345
968	192	891
238	879	230
677	474	966
276	324	902
252	897	461

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370	336	379
388	711	417
562	790	297
948	232	821
26	136	39
695	539	2
813	446	509
318	106	601
751	84	173
178	44	133
721	726	184
443	246	504
160	498	816
814	116	332
317	329	93
729	874	762
70	15	336
996	575	677
42	53	878
779	638	628
892	32	747
165	875	154
285	584	538
536	183	689
187	1000	331
178	649	778
509	23	858
412	756	677
798	726	799
508	49	194
627	382	508
836	570	732
233	153	102
940	92	291
872	535	833
295	810	576
994	864	52
101	918	616
771	481	924
718	15	150
3	778	183
345	910	449
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677	570	579
568	188	222
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224	162	185

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893	66	737
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953	585	315
756	175	626
32	114	459
146	748	920
203	425	349
685	851	941
703	874	865
881	780	264
646	203	384
985	937	934
342	439	78
359	372	633
265	813	14
597	461	685
459	726	415
913	235	750
764	856	863
444	754	643
922	720	806
699	758	620
243	48	178
173	452	957
843	845	701
364	421	39
928	107	61
828	423	702
497	734	969
282	869	82
719	899	333
83	438	653
828	214	703
395	2	414
508	934	922
459	718	391
50	48	83
825	164	648
230	742	945
105	850	25
652	609	827
744	455	554
272	408	408
696	537	208
984	534	753
648	968	490
428	39	664
226	233	822
647	895	383

686	854	344
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679	391	394
588	412	480
369	188	958
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523	489	631
896	583	775
103	325	812
362	74	377
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172	587	555
712	988	814
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11	60	852
354	243	879
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753	791	272
570	254	47
201	318	318
665	230	315
567	845	602
404	920	15
346	680	184
488	537	170
219	93	266
608	656	832
499	696	974
508	420	444
284	143	382
768	644	636
474	343	479
890	92	863
251	951	971
512	260	93
518	913	902
750	999	162
429	241	310
134	167	182
342	60	426
806	120	778
634	579	684
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529	638	155
543	182	792
221	987	51

327	341	824
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708	706	670
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272	911	587
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372	395	782
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876	963	757
756	120	316
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123	61	962
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292	847	736
258	461	183
245	561	113
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578	337	312
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424	991	989
755	369	76
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607	81	196
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25	632	403
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813	235	870
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108	782	50
113	459	605
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556	780	678
940	187	690
577	946	572
132	377	977
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391	997	191
543	498	737
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479	629	83
276	741	418
692	72	544
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249	556	248
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335	334	544
827	389	381
787	613	705
124	161	139
893	306	740
309	523	552
421	465	229
586	200	626
850	474	152
808	295	590
490	5	256
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941	300	888
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361	569	912
53	673	188
292	588	681
697	403	384
638	397	135
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230	627	319
763	635	157
884	794	590
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312	72	976
101	226	279
715	798	449
612	517	355
910	794	603
873	110	968
6	23	323
973	768	158
105	599	582
756	170	880
246	45	573
458	33	332

409	185	172
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115	266	111
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202	12	685
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466	997	275
698	607	276
570	367	473
783	100	409
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48	141	746
388	202	159
843	271	156
227	910	694
28	591	189
545	807	246
553	546	900
286	183	402
434	931	548
113	827	388
823	54	129
450	66	856
530	958	406
765	375	744
318	204	191
363	892	169
385	547	344
221	591	961
251	410	959
992	955	919
612	731	445
416	405	504
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333	663	497
488	436	172
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495	734	803

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870	435	125
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528	152	67
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374	384	677
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309	380	400
863	567	112
768	609	922
290	136	532
998	295	401
288	775	266
408	2	381
874	263	944
23	800	551
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327	769	469
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275	655	516
14	374	40
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536	831	231
522	87	610
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784	436	118
457	841	415
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720	611	368
711	712	269
736	661	768
398	395	629
342	513	25
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241	269	780
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549	819	815
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585	290	276
297	473	767
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94	177	1
446	242	718

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325	188	490
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414	758	224
397	279	663
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853	286	247
585	890	13
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560	657	733
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732	916	915
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243	591	197
318	969	759
392	477	709
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730	846	364
242	294	630
515	32	104
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329	5	245
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878	332	619
502	388	353
92	190	968
407	224	22
310	547	388
231	711	120
465	813	372
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609	704	405

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441	88	814
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558	828	265
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136	461	918
382	877	991
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462	943	469
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949	798	297
393	614	137
209	608	653
785	321	884
503	573	94
555	448	51
436	228	475
62	994	150
124	603	620
223	889	600
430	645	935
581	239	923
169	391	848
429	821	270
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864	984	191
146	555	143
419	126	314
211	535	805
148	270	12
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851	8	55
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79	908	267
77	78	335
105	659	167
269	371	705
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551	580	104
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857	975	169
86	569	119
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623	717	10
393	89	910

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278	701	366
937	15	744
221	303	145
727	37	994
853	221	751
167	667	91
696	10	366
894	144	953
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760	533	587
510	227	922
451	797	555
376	40	351
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807	867	931
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515	615	152
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477	364	518
536	321	971
16	580	248
273	391	552
956	767	947
348	506	718
268	676	843
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632	103	745
214	448	930
177	610	198
228	978	504
61	366	143
997	820	453
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20	966	177
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447	113	974
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227	450	780
319	97	429
2	729	437
444	935	141
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216	23	281
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530	429	866
178	163	461
278	771	18
321	287	340
654	666	885
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460	57	353
372	714	294
376	659	428
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607	473	948
572	267	420
681	299	796
487	718	122
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254	829	981
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954	718	373
514	454	450
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591	822	436
633	48	194
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722	974	340
232	462	535
347	123	831
95	100	648
825	654	403
576	59	461
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684	897	544
334	279	780
402	964	13
852	940	210
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681	930	993
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930	144	723
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439	10	406
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813	686	78
444	546	831
403	946	807

466	891	808
439	503	422
306	543	777
469	56	46
617	402	401
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739	611	602
255	889	802
434	158	195
668	238	32
810	514	171
622	112	901
563	998	954
621	134	468
630	143	731
379	197	932
325	270	1
361	665	983
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264	344	969
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609	394	496
163	885	484
189	857	202
642	824	11
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506	719	234
257	936	951
385	612	943
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694	335	227
38	603	998
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630	620	742
911	178	494
408	270	520
606	874	548
951	331	346
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43	225	783

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661	956	994
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493	994	406
105	978	990
424	380	136
311	744	5
882	371	961
377	809	980
885	430	442
866	638	330
325	433	666
298	593	919
555	71	455
247	823	297
864	586	895
441	778	447
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662	291	95
306	275	357
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972	774	435
218	757	321
551	283	196
665	161	224
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643	831	28
578	807	339
432	36	309
772	894	781
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588	788	453
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433	263	460
687	246	772
572	577	847
443	311	92
977	147	622
855	188	739
127	94	511
188	191	342
295	725	374
419	384	623
649	631	13
174	793	192

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185	201	965
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105	612	642
479	143	930
914	534	373
639	893	73
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547	254	626
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443	33	451
141	423	544
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600	93	187
369	560	771
801	456	91
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152	156	121
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7	16	234
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142	340	318
744	535	944
685	457	222
675	232	620
290	431	632
826	488	934
803	939	878
331	307	604

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191	660	117
421	519	786
764	468	347
900	161	589
561	365	233
250	716	347
158	858	402
351	812	681
715	380	334
847	753	398
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400	747	772
163	53	617
796	40	472
532	79	147
16	452	838
513	978	992
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114	841	848
437	707	140
453	565	716
597	585	230
714	809	266
109	735	311
378	363	819
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535	347	929
497	335	423
407	756	993
24	934	907
924	727	994
478	991	123
757	583	495
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220	52	891
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682	184	22
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212	957	231
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286	925	931
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540	464	393
313	681	260
416	861	867
236	12	578
853	986	10
138	230	933
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773	828	378
479	332	282
633	805	359
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996	564	358
389	43	227
893	671	694
3	593	350
281	409	565
912	291	681
137	405	328
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299	352	9
349	826	351
616	531	818
46	557	201
992	385	433
152	234	662
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35	700	344
177	738	692
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533	236	500
365	921	907
249	986	819
667	356	238
970	290	493
196	329	952
771	232	603
278	659	858
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151	125	919
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675	784	591
17	369	345
107	855	96
847	318	864
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441	44	870
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850	63	924
892	888	519
235	466	36
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486	192	772
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145	708	613
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523	408	191
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613	635	393
816	845	44
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343	551	22
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336	165	962
328	550	893
341	335	429
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505	100	731
208	138	214
273	91	479
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427	626	964
157	465	833
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97	796	520
876	33	33
663	763	893
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989	404	472
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961	736	401
346	667	73
854	562	357
466	409	153
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770	759	990
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94	586	650
372	901	839
663	86	870
140	735	212
558	271	422
856	752	130
448	670	119
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483	376	504
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488	974	322
589	164	299
523	915	655
508	895	729
235	418	389
296	985	919

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225	658	360
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643	837	872
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423	984	98
763	104	638
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543	252	458
525	145	682
251	240	229
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915	587	683
232	934	5
954	157	2
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203	72	920
644	173	309
496	762	479
448	173	392
870	246	489
453	397	3
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282	26	242
173	590	743
457	32	924
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715	420	826
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214	687	731
203	572	144
891	568	284
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946	149	381
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266	371	165
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42	432	574
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956	824	374
192	699	76
28	216	190
989	851	728
136	273	39
991	989	833
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74	868	61
638	3	899
363	872	940
239	387	771
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33	928	759
417	425	278
18	738	886
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461	699	444
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825	314	992
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605	938	49
533	958	709
722	429	623
114	57	778
176	622	751
773	903	174
144	498	989
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551	721	374
63	593	759
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69	707	316

726	929	742
383	668	618
426	743	121
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594	53	412
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124	882	595
707	630	238
336	660	484
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791	108	563
436	695	622
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19	946	249
870	725	936
794	470	541
995	116	308
735	946	826
369	20	947
152	48	9
782	562	563
832	37	326
666	159	6
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424	753	584
347	838	906
950	190	838
944	518	713
630	704	162
738	715	676
676	929	715
470	238	385
334	39	689
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315	312	841
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42	850	506
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851	850	981
164	576	92
331	763	106
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174	762	961
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857	299	47

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384	825	511
92	293	78
85	868	182
236	842	728
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380	71	951
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258	157	246
862	954	557
519	360	280
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331	111	105
217	766	7
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656	121	901
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408	504	126
833	774	669
266	878	987
169	567	509
902	848	492
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25	164	306
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562	603	684
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189	205	468
316	629	495
34	499	338
437	952	536
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756	402	274
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642	585	377
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817	919	819
633	921	784
502	981	10
689	587	220
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38	236	213
418	925	994
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411	584	838

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139	865	228
167	452	679
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992	519	432
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173	645	387
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272	575	119
980	776	21
763	197	230
342	454	399
389	587	118
238	295	201
697	485	381
213	631	873
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727	585	161
461	772	158
138	119	671
461	76	379
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203	841	860
361	785	59
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211	707	945
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470	398	903
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437	458	789
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167	800	344
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237	385	227
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832	484	244
169	847	636
123	256	988
623	218	776
717	926	335
630	853	390
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568	494	262
210	182	102
457	90	122
400	458	452
114	971	45
947	69	186
239	997	364
53	710	289
197	341	91
877	420	177
883	743	757
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182	314	814
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852	377	891
447	516	432
974	14	842
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593	518	363
343	693	707
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874	705	331
198	187	840
529	873	738
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393	679	367
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208	897	330
593	446	142
752	524	642
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997	830	71
958	496	309
223	50	535
245	702	913
487	131	244
180	887	704
77	424	701
695	954	374
715	615	212
100	368	295
93	563	369
515	50	448
136	940	36
353	748	577
786	964	196
65	107	963
546	573	638
939	153	778
434	950	524
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888	153	787
545	620	82
444	692	948
316	372	324
772	910	991
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897	202	443
658	155	411
592	82	748
925	439	697
802	903	625
895	546	459
57	521	488
882	103	529
691	271	429
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374	848	570
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252	162	117
700	878	12
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708	745	567
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703	655	316
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762	748	111
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688	796	87
416	645	871
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517	640	529
776	318	89
282	679	744
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366	955	335
383	987	78
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331	367	699
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738	504	279
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151	436	640
31	130	718

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480	141	744
521	486	912
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363	309	382
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315	950	692
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870	731	975
316	216	87
765	59	832
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388	647	559
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246	231	135
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163	667	59
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776	797	236
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314	776	984
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438	986	224
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600	671	695
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393	882	160
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796	229	298
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695	760	729
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255	500	246
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289	485	287
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580	701	314
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446	764	508
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688	323	447
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546	689	478
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954	992	987
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383	612	67
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575	245	359
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393	284	2
969	198	302
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705	682	516
607	284	443
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426	362	488
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728	527	957
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364	855	387
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424	869	54
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181	34	437
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126	253	348
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233	191	616
217	436	981
174	269	434
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782	604	819
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237	601	425
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433	443	399
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516	214	1000
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457	605	447
517	975	351
131	657	959
80	153	794
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478	384	69
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147	823	796
233	580	732
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422	307	689
461	369	447
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199	281	845
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452	548	26
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371	99	660
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660	476	848
297	639	771
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725	785	932
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216	679	162
209	627	363
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227	809	555
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915	893	447
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592	221	799
267	447	14
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563	716	484
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562	66	930
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121	296	94
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685	738	695
779	180	677
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495	353	29
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114	366	407
561	793	473
688	266	755
682	130	314
680	224	953
258	431	887
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490	469	713
506	627	591
713	997	39
161	219	373
289	219	35

852	408	429
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908	717	756
874	885	923
143	479	67
108	623	671
766	72	972
408	183	640
812	617	781
276	167	6
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500	50	539
51	887	92
763	230	753
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620	54	244
703	171	148
711	445	226
790	89	989
41	632	198
751	294	916
711	644	430
529	705	384
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220	451	551
545	144	47
616	657	114
410	879	447
713	437	606
314	262	446
751	723	598
203	855	634
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737	92	997
861	124	168
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590	426	624
85	989	416
470	999	855
472	863	444
586	477	929
893	18	597
565	71	186
120	527	213
765	550	756
927	55	946
965	639	17
501	162	945

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721	913	877
201	923	295
240	414	475
46	406	823
761	471	547
412	968	440
661	544	945
557	508	225
75	86	963
632	919	900
731	347	66
579	47	262
337	212	628
109	335	289
472	920	234
195	388	339
46	211	446
75	559	463
311	812	406
653	127	485
333	256	496
223	316	60
758	830	72
286	723	404
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657	86	589
639	528	699
625	587	709
102	304	436
251	916	883
504	685	86
144	777	80
441	897	605
175	438	559
268	761	136
43	263	7
607	655	727
818	662	247
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788	122	660
272	155	915
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319	317	424
425	864	837
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221	60	689
430	645	909

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745	372	594
231	830	792
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804	647	352
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619	843	158
654	681	391
369	480	960
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709	40	915
808	497	927
143	124	336
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765	267	854
474	684	359
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774	286	46
589	377	893
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73	349	739
375	524	644
343	537	62
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602	992	448
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529	555	748
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702	340	99
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369	870	835
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940	192	442
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625	126	1000
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684	394	384
691	8	221
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360	831	295
586	373	232
635	527	64
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457	367	628
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519	847	272
572	290	656
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817	567	22
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503	343	522
676	992	186
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244	397	304
626	611	241
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898	711	685
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680	286	152
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949	350	383
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695	613	36
930	739	139
389	998	605
924	994	687
620	995	651
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232	126	323
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89	767	575
903	100	354
193	614	459
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274	275	214
663	744	864
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113	200	580
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503	701	775
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367	489	973
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107	876	103
25	977	568
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332	926	868
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242	99	905
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393	584	843
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429	151	163
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312	598	469
661	915	90
466	223	878
774	386	391
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590	698	992
863	741	668
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833	710	518
329	417	673
901	561	368
336	149	99
140	20	356
294	93	702
736	142	815
470	125	668
585	72	218
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211	22	539
544	225	734
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694	500	430
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637	217	296
614	664	354
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103	803	958
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270	295	882
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482	245	358
186	511	862
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278	126	625
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303	227	855
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415	182	510
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608	907	594
372	211	988
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386	915	616
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638	20	405
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833	254	205
620	710	971
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695	661	581
550	247	250
763	749	543
212	700	699
16	294	61
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332	17	942
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421	735	670
730	428	937
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46	891	368
446	665	743
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596	544	583
307	208	92
299	194	678
156	71	372
278	935	140
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422	135	557
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727	569	98
471	762	287
678	992	110
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165	538	882
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213	228	640
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392	479	80
263	436	28
708	890	686
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287	571	575

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687	675	678
338	242	189
432	194	946
112	90	393
542	482	35
502	612	5
696	356	906
506	255	966
626	35	162
756	44	420
527	679	511
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757	503	25
277	674	72
710	335	89
886	458	507
156	350	928
62	182	421
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675	677	151
527	586	412
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814	265	701
23	940	501
529	230	229
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561	372	330
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802	879	847
776	730	827
875	751	736
308	181	462
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807	781	411
75	181	600
840	466	797
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502	248	858
675	302	480
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522	226	235
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201	401	527
768	347	879
414	916	888
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624	164	438
134	599	51
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730	8	992
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183	285	354
889	248	787
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798	63	192
658	835	149
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536	426	375
870	912	225
316	683	292
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682	586	453
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274	489	408
853	418	75
595	353	924
29	376	694
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11	661	722
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777	574	566
143	869	628
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740	871	397
982	282	984
987	684	656
948	923	560
302	935	955
599	757	768
256	672	926

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490	358	550
448	683	237
447	290	506
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207	25	978
714	590	39
462	476	640
259	545	760
508	305	93
200	9	973
272	188	784
422	145	974
107	148	888
324	503	646
450	302	790
898	50	648
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735	981	670
924	879	814
438	588	379
145	248	929
181	321	428
734	786	528
4	608	443
799	139	974
995	810	244
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446	252	344
17	538	855
763	146	914
808	317	561
510	827	256
365	270	629
10	812	265
768	592	59
162	584	843
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571	468	978
124	700	644
586	812	784
221	972	288
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883	290	960
366	631	188
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286	326	308
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768	280	295
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532	486	22
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830	209	259
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737	300	904
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730	418	820
254	309	173
561	166	224
308	777	383
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344	347	196
754	277	421
503	17	229
230	907	384
494	679	628
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497	424	136
381	170	433
524	802	456
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356	727	478
432	228	402
592	672	403
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597	917	726
158	823	163
745	10	69
19	258	501
286	770	495
444	707	753
576	169	286
675	684	973
396	665	221
785	391	902
776	355	357
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294	229	385
533	985	470

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555	796	966
298	862	547
850	570	234
754	763	806
590	608	267
815	244	551
145	932	986
595	90	988
774	283	941
902	790	347
504	419	519
763	231	243
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979	525	227
607	596	781
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25	879	413
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384	600	932
967	784	719
253	585	939
657	643	624
537	606	602
915	205	205
730	428	999
261	535	525
245	389	488
977	510	147
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866	596	573
296	288	813
710	283	667
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402	489	274
812	791	778
576	42	501
491	771	66
408	370	396
232	924	723
793	927	293
944	319	11

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393	668	146
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215	166	720
17	803	957
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861	184	22
3	159	211
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337	764	297
186	170	85
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140	389	947
846	447	386
731	599	384
549	804	267
583	826	512
263	346	468
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522	726	614
735	862	209
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23	103	621
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433	571	825
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462	618	243
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846	899	511
43	874	487
866	724	451
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638	419	196
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378	763	602
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76	136	636
294	556	292
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773	501	232
745	578	377
229	264	306
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131	950	341
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725	157	601
817	342	451
801	122	435
241	304	283
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316	556	112
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424	60	923
503	999	68
162	891	294
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495	921	231
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558	140	589
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336	918	483
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830	452	572
296	656	79
485	510	966
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714	934	675
860	285	219
793	935	145
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307	907	211
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710	85	31
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363	408	245
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41	482	680
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359	259	207
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622	240	32
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644	138	863
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385	632	86
516	642	234
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46	484	75
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31	111	82
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362	455	577
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475	975	606
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42	166	923
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597	507	888
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512	115	306
356	118	17
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752	851	13
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398	416	743
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422	714	789
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343	496	167
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470	161	981
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707	781	82
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370	398	620
463	364	691
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23	934	435
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170	227	233
218	518	82
487	407	340
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205	476	403
75	504	163
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165	119	128
980	283	773
268	130	259
724	5	880
950	741	264
902	99	641
690	646	764
538	613	752
831	791	15
567	755	782
849	630	37
546	745	624

97	165	854
735	712	920
770	129	119
171	126	411
900	479	175
146	313	696
7	275	154
377	797	140
759	349	376
478	523	376
491	52	644
288	806	935
435	956	935
492	769	485
281	308	313
252	668	924
608	704	318
989	540	471
471	368	16
362	624	364
545	940	254
744	328	75
415	260	674
888	712	5
762	163	154
670	97	490
828	508	328
453	871	820
59	503	513
174	818	439
567	721	980
219	595	830
232	538	628
239	485	56
898	368	640
961	875	25
965	802	272
174	535	117
683	93	70
82	333	826
563	242	443
236	322	639
26	191	216
325	439	207
863	237	24
921	203	151
828	746	276
136	210	664
815	41	187
511	184	503

408	798	853
450	677	891
614	663	47
2	583	685
457	288	364
713	312	299
94	763	538
567	902	235
198	75	680
427	69	929
453	163	655
714	565	289
355	61	561
781	308	188
105	827	164
592	327	923
301	103	730
536	418	422
613	842	544
266	253	250
212	835	595
766	197	68
678	744	371
723	359	252
739	961	456
351	463	76
72	607	396
758	774	614
200	565	393
234	749	724
746	737	809
959	570	121
594	987	278
744	915	584
200	579	745
479	798	458
967	263	380
469	195	294
502	102	709
629	567	633
323	445	643
648	978	623
91	781	392
983	405	124
446	329	693
813	559	196
870	722	768
936	915	487
345	278	543
163	105	116

60	966	421
646	69	471
589	553	602
123	36	18
714	984	859
904	671	514
602	690	544
514	407	493
513	388	178
157	951	348
728	576	324
924	571	87
351	801	908
223	872	7
595	748	334
751	870	931
276	442	255
677	562	63
573	547	560
576	781	682
941	80	250
902	43	108
342	791	62
420	201	871
607	27	466
538	567	307
160	763	166
895	882	510
94	52	15
909	352	25
528	776	668
227	930	440
405	694	706
227	57	80
870	504	889
32	71	183
245	683	628
901	417	666
164	694	199
741	456	639
94	81	87
685	893	426
851	28	745
27	134	874
602	581	707
734	26	26
622	710	982
480	312	317
45	275	7
3	64	237


```

using System;
using System.Drawing;
using System.Collections;
using System.ComponentModel;
using System.Windows.Forms;
using System.Data;
using System.IO;
namespace maria0426
{
    /// <summary>
    /// Summary description for WinForm.
    /// </summary>
    public class FBuild
    {
        private const string FILE_NAME_WI = "Index3.txt";
        private static FileStream fsOut = new FileStream(FILE_NAME_WI, FileMode.Open,
        FileAccess.Write, FileShare.Read);
        private static StreamWriter sw = new StreamWriter(fsOut);
        ~FBuild()
        {
            if (sw!=null) sw.Close();
            fsOut = null;
            sw = null;
        }
        public void FOpen_WI()
        {
            if (!File.Exists(FILE_NAME_WI))
            {
                Console.WriteLine("{0} does not exist!", FILE_NAME_WI);
            }
        }
        public void FIWriteSeq(string message)
        {
            sw.WriteLine(message);
        }
        int index,range,depth;
        public long[] CData;
        public string ChannellNo;
        private int SegmentNo;
        private double[] avals;
        public FBuild(int i,int d,string cs)
        {
            CData= new long[i];
            index=i;
            depth=d;
            ChannellNo=cs;
            avals = new double[depth];
            int j;
            for (j=0;j<depth;++j)
            {

```

```

    avals[j]=1;
};
FOpen_WI();
}
private long minF()
{
    int j;
    long min=1000000;
    for (j=0;j<index;++j)
    {
        if (CData[j]<min) min=CData[j];
    };
    return min;
}
private long maxF()
{
    int j;
    long max=0;
    for (j=0;j<index;++j)
    {
        if (CData[j]>max) max=CData[j];
    };
    return max;
}
private long nFun(int index,int dummy,int fv)
{
    return((long)Math.Abs((double)CData[dummy]-avals[index]*Math.Pow(fv,(2+index))));
}
private long cFun(int index,int dummy,int fv)
{
    return((long)(avals[index]*Math.Pow(fv,2+index)));
}
private long xFun(int c0,int ci,int cv)
{
    int i,j=0;
    long rr=0;
    for (i=c0;i<ci;++i)
    {
        rr+=nFun(j,i,cv);
        ++j;
    };
    return rr;
}
private long pFun(int p0,int pi,int pv)
{
    int i,j=0;
    long rr=0;
    for (i=p0;i<pi;++i)
    {
        rr+=cFun(j,i,pv);
    };
}

```

```

    ++j;
};
return rr;
}
public void minFun(int segment,int pass)
{
    int i,j,k,l,t=0,ex=0;
    long min,curr=0;
    string message;
    for (j=0;j<depth;++j)
    {
        avals[j]=1;
    };
    curr=pFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
    min=xFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
    while(ex==0)
    {
        if (curr>min)
        {
            for (j=0;j<=depth-1&&ex==0;++j)
            {
                avals[depth-1-j]-=1.0/Math.Pow(10,depth);
                curr=pFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
                if (curr<min)
                {
                    ++ex;
                    Console.WriteLine("Exiting...");
                };
                if (ex==0) min=xFun((segment-1)*depth,depth*segment,(int)(maxF()-minF())/index);
            }else {++ex;};
        };
        for (l=0;l<depth;++l)
        {
            message=String.Format("{0,3:d}, Pass:{1,3:d} Segment:{2,3:d} Index:{3}",ChannelNo,pass,segment,avals[l]);
            FIWriteSeq(message);
        };
    }
}

public class InOutBuf
{
    private const string FILE_NAME = "Chain1.txt";
    private const string FILE_NAME1 = "Chain2.txt";
    private const string FILE_NAME2 = "B.txt";
    private const string FILE_NAME3 = "C.txt";
    private const string FILE_NAME_W = "D.txt";
    private static FileStream fsIn = new FileStream(FILE_NAME, FileMode.Open,
        FileAccess.Read, FileShare.Read);
    private static FileStream fsIn1 = new FileStream(FILE_NAME1, FileMode.Open,
        FileAccess.Read, FileShare.Read);
    private static FileStream fsIn2 = new FileStream(FILE_NAME2, FileMode.Open,
        FileAccess.Read, FileShare.Read);

```

```

private static FileStream fsIn3 = new FileStream(FILE_NAME3, FileMode.Open,
FileAccess.Read, FileShare.Read);
private static FileStream fsOut = new FileStream(FILE_NAME_W, FileMode.Open,
FileAccess.Write, FileShare.Read);
private static StreamReader sr1 = new StreamReader(fsIn1);
private static StreamReader sr2 = new StreamReader(fsIn2);
private static StreamReader sr3 = new StreamReader(fsIn3);
private static StreamReader sr = new StreamReader(fsIn);
private static StreamWriter sw = new StreamWriter(fsOut);
public void FOpen()
{
    if (!File.Exists(FILE_NAME))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME);
    }
}
public void FOpen1()
{
    if (!File.Exists(FILE_NAME1))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME1);
    }
}
public void FOpen2()
{
    if (!File.Exists(FILE_NAME2))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME2);
    }
}
public void FOpen3()
{
    if (!File.Exists(FILE_NAME3))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME3);
    }
}
public void FOpen_W()
{
    if (!File.Exists(FILE_NAME_W))
    {
        Console.WriteLine("{0} does not exist!", FILE_NAME_W);
    }
}
public long FBegin_R()
{
    return sr.BaseStream.Seek(0, SeekOrigin.Begin);
}
public string FReadSeq()
{

```

```

while (sr.Peek()>-1)
{
    String input = sr.ReadLine();
    return input;
}
return "Over...";
}
public string FReadSeq1()
{
    while (sr1.Peek()>-1)
    {
        String input = sr1.ReadLine();
        return input;
    }
    return "Over...";
}
public string FReadSeq2()
{
    while (sr2.Peek()>-1)
    {
        String input = sr2.ReadLine();
        return input;
    }
    return "Over...";
}
public string FReadSeq3()
{
    while (sr3.Peek()>-1)
    {
        String input = sr3.ReadLine();
        return input;
    }
    return "Over...";
}
public void FWriteSeq(string message)
{
    sw.WriteLine(message);
}
~InOutBuf()
{
    if (sr!=null) sr.Close();
    if (sw!=null) sw.Close();
    fsIn =null;
    sr = null;
    fsOut =null;
    sw = null;
}
}
public class WinForm : System.Windows.Forms.Form
{

```

```

/// <summary>
/// Required designer variable.
/// </summary>
private System.ComponentModel.Container components = null;
private System.Windows.Forms.Button button1;
private System.Windows.Forms.Button button2;
private System.Windows.Forms.Label label1;
public WinForm()
{
    //
    // Required for Windows Form Designer support
    //
    InitializeComponent();
    //
    // TODO: Add any constructor code after InitializeComponent call
    //
}
/// <summary>
/// Clean up any resources being used.
/// </summary>
protected override void Dispose (bool disposing)
{
    if (disposing)
    {
        if (components != null)
        {
            components.Dispose();
        }
    }
    base.Dispose(disposing);
}
#region Windows Form Designer generated code
/// <summary>
/// Required method for Designer support - do not modify
/// the contents of this method with the code editor.
/// </summary>
private void InitializeComponent()
{
    this.button1 = new System.Windows.Forms.Button();
    this.button2 = new System.Windows.Forms.Button();
    this.label1 = new System.Windows.Forms.Label();
    this.SuspendLayout();
    //
    // button1
    //
    this.button1.Location = new System.Drawing.Point(280, 88);
    this.button1.Name = "button1";
    this.button1.Size = new System.Drawing.Size(80, 24);
    this.button1.TabIndex = 0;
    this.button1.Text = "button1";

```

```

this.button1.Click += new System.EventHandler(this.button1_Click);
//
// button2
//
this.button2.Location = new System.Drawing.Point(376, 88);
this.button2.Name = "button2";
this.button2.Size = new System.Drawing.Size(88, 24);
this.button2.TabIndex = 1;
this.button2.Text = "button2";
this.button2.Click += new System.EventHandler(this.button2_Click);
//
// label1
//
this.label1.Location = new System.Drawing.Point(32, 24);
this.label1.Name = "label1";
this.label1.Size = new System.Drawing.Size(432, 24);
this.label1.TabIndex = 2;
this.label1.Text = "label1";
//
// WinForm
//
this.AutoScaleBaseSize = new System.Drawing.Size(5, 13);
this.ClientSize = new System.Drawing.Size(480, 117);
this.Controls.Add(this.label1);
this.Controls.Add(this.button2);
this.Controls.Add(this.button1);
this.Name = "WinForm";
this.Text = "WinForm";
this.ResumeLayout(false);
}
#endregion
/// <summary>
/// The main entry point for the application.
/// </summary>
[STAThread]
static void Main()
{
    Application.Run(new WinForm());
}
private void button2_Click(object sender, System.EventArgs e)
{
    Application.Exit();
}
private void button1_Click(object sender, System.EventArgs e)
{
    string ns,ns1;
    int
i=0,j,k=0,ex=0,l=0,m=3,index=100,depth=5,sigN=8,p=0,nchannells=3,wi=2,d=0,samples=3,c1=0,c2=0,c=0,cchan=0,s
dcc=0;
    long t=0;

```

```

char[] nc = new char[24];
double tt=0,tt1=0,tt2=0;
double[,] ia;
double[,] sia;
double[] sd;
double sdc;
string message,sn1,sn2,sn3,sn4,sn5;
long[,] dm;
//*****
//Channel len 10000
//Chanell digits 8
wi=5;cchan=1;depth=5;samples=7;sigN=8;nchannells=3;
//*****
if(wi==1)
{
//*****
// Determine regression indexes by samples No
// Input files In
// Output files Index1-N
//*****
InOutBuf FRead =new InOutBuf();
FRead.FOpen();
FBuild xm =new FBuild(index,depth,String.Format("Chanell {0}",cchan));
ns=FRead.FReadSeq();
for (m=cchan;m<=cchan/*nchannells*/;++m)
{
while (ns!="Over...")
{
while (ns!="Over..."&&ex==0)
{
label1.Text=ns+" Chanell "+String.Format("{0}",m);
label1.Refresh();
nc=ns.ToCharArray();k=0;t=0;
if (m==1)
{
for (j=sigN-1;j>0;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;
};
};
}else{
for (j=m*sigN-1;j>(m-1)*sigN-1;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;

```



```

    };
    };
    };
    xm.CData[i]=t;
    ++i;
    if (i==index) {++ex;i=0;++p;};
    ns=FRead.FReadSeq();
};
for (l=1;l<=samples/*index/depth*/;++l){xm.minFun(l,p);}ex=0;
};
if (FRead.FBegin_R())>-1)
{
    ns=FRead.FReadSeq();
    xm.ChannelNo=String.Format("Channel {0}",m);p=0;ex=0;
};
};
xm=null;
label1.Text="End Channels!";
label1.Refresh();
};
if(wi==2)
{
//*****
// Determine sample sd & min sample No sd & corresp. sample
// Input files In
// Output files ...
//*****
InOutBuf FInOut =new InOutBuf();
FInOut.FOpen();
ns=FInOut.FReadSeq();c=0;
ia=new double[samples,depth];
sia=new double[samples,index*index];
sd=new double[samples];
double min=4.0;
while (ns!="Over...")
{
    nc=null;
    nc = new char[ns.Length];
    nc=ns.ToCharArray();
    tt=0;ex=0;d=0;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (nc[j]=='.') ++ex;
        ++d;
    };ex=0;--d;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (Char.IsDigit(nc[j])||nc[j]=='.')
        {
            if (Char.IsDigit(nc[j])) tt+=((int)nc[j]-48)*(1.0/Math.Pow(10,d));

```

```

        if (nc[j]=='.') ++ex;
        --d;
    };
};
label1.Text=String.Format("{0}",tt);
label1.Refresh();
ia[c1,c]=tt;
++c;ns=FInOut.FReadSeq();
if (c==depth&&ns!="Over...")
{
sia[c1,k]=Math.Pow(ia[c1,0],2)+Math.Pow(ia[c1,1],3)+Math.Pow(ia[c1,2],4)+Math.Pow(ia[c1,3],5)+Math.Pow(ia[c1,4],6
);
    ++c1;if (c1==samples) c1=0;
    c=0;++k;
};
};--k;k/=samples;tt=0;tt1=0;tt2=0;
for (i=0;i<samples;++i)
{
    tt=0;
    for (j=0;j<k;++j)
    {
        tt+=sia[i,j];
    };
    tt/=k;tt=Math.Pow(tt,2);
    tt1=0;
    for (j=0;j<k;++j)
    {
        tt1+=Math.Pow(sia[i,j],2);
    };
    tt2=Math.Sqrt(tt1/k-tt);
    sd[i]=tt2;
    if (min>sd[i]) {min=sd[i];l=i;};
};
label1.Text=String.Format("End Samples! Channell {0} Samples min sd={1} SampleNo {2}",cchan,min,++l);
label1.Refresh();
};
if(wi==3)
{
//*****
// Determine sample segment matching sample sd & sample No
// Input files Index1-N
// Output files Out1-N
//*****
InOutBuf FInOut3 =new InOutBuf();
FInOut3.FOpen();FInOut3.FOpen1();
FInOut3.FOpen_W();
ns=FInOut3.FReadSeq();ns1=FInOut3.FReadSeq1();c=0;
int seg3=0;
//*****
//Ch No 1

```

```

//St Dev
sdc=0.010431867;
//For SampleNo
sdcc=4;
//*****
//Ch No 2
//St Dev
//sdc=0.002262942;
//For SampleNo
//sdcc=5;
//*****
//Ch No 3
//St Dev
//sdc=0.001823546;
//For SampleNo
//sdcc=5;
//*****
while (ns!="Over...")
{
    nc=null;
    nc = new char[ns.Length];
    nc=ns.ToCharArray();
    tt=0;ex=0;d=0;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (nc[j]!='.') ++ex;
        ++d;
    };ex=0;--d;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (Char.IsDigit(nc[j])||nc[j]!='.')
        {
            if (Char.IsDigit(nc[j])) tt+=((int)nc[j]-48)*(1.0/Math.Pow(10,d));
            if (nc[j]!='.') ++ex;
            --d;
        };
    };++c;
    if (Char.IsDigit(nc[29])&&Char.IsDigit(nc[30])&&Char.IsDigit(nc[31]))
    {
        seg3=(int)((int)(nc[29]-48)*(1.0/Math.Pow(10,2))+((int)((int)nc[30]-48)*(1.0/Math.Pow(10,1))+((int)((int)nc[31]-48)*(1.0/Math.Pow(10,0))));
    };
    if (Char.IsDigit(nc[30])&&Char.IsDigit(nc[31]))
    {
        seg3=(int)((int)(nc[30]-48)*(1.0/Math.Pow(10,1))+((int)((int)nc[31]-48)*(1.0/Math.Pow(10,0))));
    };
    if (Char.IsDigit(nc[31]))
    {
        seg3=(int)((int)((int)nc[31]-48)*(1.0/Math.Pow(10,0)));
    };
}

```

```

if (seg3==sdcc)
{
    message="Error...";
    if (tt<=1.0&&tt>=sdc)
    {
        if (cchan==1) message=ns1.Remove(8,16)+String.Format(" {0,8:d} {1}",c,tt);
        if (cchan==2)
        {
            ns1=ns1.Remove(0,8);
            message=ns1.Remove(8,8)+String.Format(" {0,8:d} {1}",c,tt);
        };
        if (cchan==3)message=ns1.Remove(0,16)+String.Format(" {0,8:d} {1}",c,tt);
        label1.Text=String.Format("{0}",tt);
        label1.Refresh();
        FInOut3.FWriteSeq(message);
    };
}else{
    message="Error...";
    if (cchan==1) message=ns1.Remove(8,16)+String.Format(" {0,8:d} {1}",0,0.0);
    if (cchan==2)
    {
        ns1=ns1.Remove(0,8);
        message=ns1.Remove(8,8)+String.Format(" {0,8:d} {1}",0,0.0);
    };
    if (cchan==3) message=ns1.Remove(0,16)+String.Format(" {0,8:d} {1}",0,0.0);
    FInOut3.FWriteSeq(message);
};
ns=FInOut3.FReadSeq();
ns1=FInOut3.FReadSeq1();
};
label1.Text=String.Format("End Domains! Channell {0} Values {1}",cchan,c);
label1.Refresh();
};
if(wi==4)
{
    //*****
    // Determine Chain Indexes and function sub domains
    // Input files Out1-N
    // Output files Chain1-N
    //*****
    InOutBuf FInOut4 =new InOutBuf();
    FInOut4.FOpen();
    FInOut4.FOpen_W();
    ns=FInOut4.FReadSeq();ex=0;c=0;
    sn1="Error...";sn2="Error...";sn3="Error...";sn4="Error...";sn5="Error...";
    while (ns!="Over...")
    {
        nc=null;
        nc = new char[ns.Length];
        nc=ns.ToCharArray();

```

```

if (nc[ns.Length-1]!='0')
{
    tt=0;ex=0;d=0;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (nc[j]=='.') ++ex;
        ++d;
    };ex=0;--d;
    for (j=ns.Length-1;j>0&&ex==0;--j)
    {
        if (Char.IsDigit(nc[j])||nc[j]=='.')
        {
            if (Char.IsDigit(nc[j])) tt+=((int)nc[j]-48)*(1.0/Math.Pow(10,d));
            if (nc[j]=='.') ++ex;
            --d;
        };
    };++c;
    if (c==1) {sn1=ns.Remove(8,ns.Length-8);};
    if (c==2) {sn2=ns.Remove(8,ns.Length-8);};
    if (c==3) {sn3=ns.Remove(8,ns.Length-8);};
    if (c==4) {sn4=ns.Remove(8,ns.Length-8);};
    if (c==5) {sn5=ns.Remove(8,ns.Length-8);};
    if (c==5)
    {
        c=0;
        if (tt1==0&&tt2==0)
        {
            tt1=tt;
        }
        else
        {
            if (tt2==0)
            {
                tt2=tt;
                message=String.Format("{0}{1}{2}{3}{4} {5}",sn1,sn2,sn3,sn4,sn5,tt1/tt2);
                FInOut4.FWriteSeq(message);
                tt1=tt2;tt2=0;
            };
        };
    };
    ns=FInOut4.FReadSeq();
};
label1.Text=String.Format("End Chains! Channell {0} ",cchan);
label1.Refresh();
};
if(wi==5)
{
    //*****
    // Determine relation direction & strength

```

```

// Input files Chain1-N
// Output files ...
//*****
InOutBuf FRead5 =new InOutBuf();
FRead5.FOpen();
ns=FRead5.FReadSeq();
dm=new long[2,depth*5];
for (i=0;i<depth*5;++i){dm[0,i]=0;dm[1,i]=0;};i=0;
while (ns!="Over..."&&ex==0)
{
    nc=null;
    nc = new char[ns.Length];
    nc=ns.ToCharArray();
    if (nc[ns.Length-1]=='A')
    {
        t=0;k=0;
        for (m=1;m<=depth;++m)
        {
            if (m==1)
            {
                for (j=sigN-1;j>0;--j)
                {
                    if (Char.IsDigit(nc[j]))
                    {
                        t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
                        ++k;
                    };
                };
                dm[0,l*depth+m-1]=t;t=0;k=0;
            }else{
                for (j=m*sigN-1;j>(m-1)*sigN-1;--j)
                {
                    if (Char.IsDigit(nc[j]))
                    {
                        t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
                        ++k;
                    };
                };
                dm[0,l*depth+m-1]=t;t=0;k=0;
            };
        };
        ++l;
    };
    ns=FRead5.FReadSeq();
};
FRead5.FOpen1();
ns=FRead5.FReadSeq1();l=0;
while (ns!="Over..."&&ex==0)
{
    nc=null;

```

```

nc = new char[ns.Length];
nc=ns.ToCharArray();
if (nc[ns.Length-1]=='A')
{
t=0;k=0;
for (m=1;m<=depth;++m)
{
if (m==1)
{
for (j=sigN-1;j>0;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;
};
};
dm[1,l*depth+m-1]=t;t=0;k=0;
}else{
for (j=m*sigN-1;j>(m-1)*sigN-1;--j)
{
if (Char.IsDigit(nc[j]))
{
t+=((int)nc[j]-48)*(int)Math.Pow(10,k);
++k;
};
};
dm[1,l*depth+m-1]=t;t=0;k=0;
};
};
++l;
};
ns=FRead5.FReadSeq();
};ex=0;
for (i=0;i<samples*5&&ex==0;++i){if (dm[0,i]==0&&dm[1,i]==0)++ex;}
long r=0,rm=0,r1=0;
double rr;
for (j=0;j<=i;++j)
{
r+=dm[0,j];
};rm=r/j;
for (j=0;j<=i;++j)
{
r+=(long)Math.Pow(dm[0,j]-dm[1,j],2);
r1+=(long)Math.Pow(dm[0,j]-rm,2);
};rr=(1-((double)r/(double)r1));
if (rr<0)
{
rr=(1-((double)r1/(double)r));
rr=Math.Sqrt(rr);

```

```

message="Type Weak";
if (1>=rr&&1-0.5<=rr) message="Type Strong";
label1.Text=String.Format("Corr coef Channel 2 vs 1 {0} ",rr)+message;
label1.Refresh();
}else{
rr=Math.Sqrt(rr);
message="Type Weak";
if (1>=rr&&1-0.5<=rr) message="Type Strong";
label1.Text=String.Format("Corr coef Channel 1 vs 2 {0} ",rr)+message;
label1.Refresh();
};
};
//*****
//InOutBuf FWrite =new InOutBuf();
//FWrite.FOpen_W();
//int i;
//string message;
//Random rn=new Random();
//for (i=0;i<10000;++i)
//{
// message=String.Format("{0,8:d}{1,8:d}{2,8:d}",1+rn.Next()%1000,1+rn.Next()%1000,1+rn.Next()%1000);
// FWrite.FWriteSeq(message);
//};
//FWrite=null;
//*****
}
}
}

```


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101	790	473	731	103	0.116366583695299
136	937	314	876	313	8.40944498470491
462	399	343	832	463	1.49490538566605
310	728	840	538	513	0.0518999773430914
151	862	194	810	506	21.4538087488603
312	170	449	914	742	0.145108184403079
395	757	719	421	937	1.03922766711382
905	963	981	536	994	0.5687378370922
16	405	569	860	735	2.63806380632284
314	234	333	825	585	2.06122448971937
805	905	221	889	425	1.21823204417964
911	141	980	46	115	0.628836132041418
815	228	478	854	490	0.464497041433892
866	892	677	442	532	4.14723926346767
331	364	177	476	294	1.30780452220351
1	90	974	396	979	0.117591560182623
870	867	997	149	23	9.87214225088823
344	436	164	403	401	0.946314102572344
27	284	416	913	979	0.0279939884745827
169	685	903	522	36	15.1070823440626
850	421	310	791	806	0.292990468639353
388	808	394	252	948	1.53372925230638
467	4	834	186	528	0.840092106950386
582	318	4	963	541	0.802978941965937
476	288	476	6	812	3.97022838475965
365	420	782	969	994	1.96789727111919
549	995	661	117	916	1.07692307691034
954	376	358	813	690	0.389562289601677
996	11	691	160	266	1.90140845059363
693	389	222	350	162	0.118091781973921
908	247	569	660	872	0.773463540146207
625	973	906	61	619	1.88919575782513
905	798	301	622	862	7.76995708043153
616	266	835	175	780	0.182059696852096
249	755	328	91	982	0.818495778976128
493	74	251	477	985	1.26382153248442
746	341	942	328	271	1.32235998288554
239	145	295	35	832	1.19948717947743
172	42	267	435	347	0.359911406434396
950	955	88	594	169	4.26446280967095
714	400	879	657	56	0.343053867979704
284	720	60	940	768	0.28126067970893
261	851	173	806	78	2.37060041405636
115	274	599	94	447	1.07990667833036
775	614	673	968	245	3.3312823832749
231	889	282	733	866	0.277922779240262
525	603	623	429	164	1.52226332372904
182	190	638	206	937	0.67358803987298
710	563	759	90	938	7.72895862960769
397	47	90	219	330	0.334526366052829 A

89	555	450	698	485 0.59548167094024 A
442	504	119	629	409 0.183913452496929 A
796	938	705	431	529 1.79342018932698
832	948	834	570	375 7.57472488418463
794	305	338	345	477 0.21929005138952
98	406	338	856	285 1.87314085736808
873	511	236	141	653 1.45697896747663
228	437	47	935	107 0.858471639618269
337	72	427	171	772 2.09274809152344
235	26	68	492	750 0.116781814137204
5	866	191	229	964 2.35612266327972
588	465	660	503	61 0.827496306598909
924	139	500	485	398 10.3666666650488
729	585	652	900	485 0.0410837219699161
884	570	412	981	508 0.995871728713629
256	745	632	736	309 2.68587268584216
477	532	837	102	319 1.50446827523112
619	633	568	538	64 0.831146323351437
842	62	448	841	540 3.1383061381471
792	263	598	105	263 0.988479262673659
508	374	481	896	530 0.493836525715274
257	360	292	60	401 1.56561757716515
634	390	96	472	357 0.573960463544852
758	814	130	748	928 0.348435366078298
170	215	791	262	89 2.19283854163718
845	261	859	957	235 0.65106815870363
824	168	972	390	26 9.2228303349674
931	91	500	560	910 0.137143469886914
202	771	734	874	602 3.38266231394392
959	148	247	815	865 1.75829081623385
773	795	723	447	304 0.15878481014291
115	139	454	972	617 2.6249335459032

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572	881	846	371	759 0.915341959337547
593	441	90	372	508 16.9592476393179
353	122	519	645	96 0.229002153731337 A
986	614	280	915	800 0.544140625034123 A
275	408	346	315	500 0.486969754631531 A
905	817	383	32	80 1.72022251304408
252	945	426	42	93 0.265577474592939
793	854	424	366	756 12.5212187135923
301	467	847	770	89 0.21628618502003
329	922	354	647	686 2.99014778298312
485	165	769	974	472 0.186092194886834
971	811	805	814	200 0.671591908536851
348	427	897	543	291 1.59534165846555
150	452	751	828	453 0.829299511290816
810	578	176	126	428 2.28442317909453
834	776	645	517	478 0.337671663237353
885	873	475	327	39 7.87349823228424
365	546	634	92	774 0.516234950781724
122	175	250	838	479 1.93164200128363
153	644	88	980	815 2.88414634072951
509	385	919	706	790 0.415891800601809 B
830	155	512	979	180 0.195150115498852 B
443	645	389	334	574 0.886127759102772 B
206	217	410	129	982 7.66069428748534
454	337	641	130	878 1.11069651738655
203	760	447	244	557 0.117750439392058
53	138	837	904	977 8.44004944199637
386	404	744	634	559 0.651893634219752 C
1000	704	713	713	218 0.305138923071813 C
814	264	711	15	352 0.45799549550722 C
264	985	74	220	919 3.86254893408072
179	907	160	524	957 0.365268509711035
211	347	764	614	994 2.06631648056359
450	877	370	806	163 0.829294854351364
884	181	588	917	24 0.0551079503710869
679	293	572	85	199 42.6429942367129
419	792	793	53	699 0.217445742925683
11	564	561	209	427 0.141629886510096
790	980	842	737	865 1.89090909090304
166	686	123	618	264 4.89245351791175
398	238	237	836	316 5.12231559216695
607	298	715	563	613 3.27522935646478
1000	528	531	148	630 0.0696634001231892
709	575	664	126	368 3.59693486551943
288	41	914	652	800 3.69688385122712
148	299	521	451	873 0.0663908219256847
215	490	994	648	501 5.28528826956216
793	21	634	648	198 0.271745002738927 D
196	516	662	766	449 0.444257770323598 D
765	255	243	959	118 0.724167897806012 D

444	807	585	866	10	1.54747175899587
696	128	80	521	928	0.850217242171186
463	2	143	311	720	2.40208733856937
905	856	866	579	22	3.14693171960998
664	839	331	562	453	2.03339191529342
238	913	153	684	119	0.114533011306284
489	940	453	891	927	4.61710037110357
189	663	856	93	95	0.566017885367267
243	764	634	689	315	0.0258095173469346
924	437	819	430	608	6.28455631390131
983	294	883	844	889	13.257918549378
605	49	290	814	566	0.0698869475988863
549	748	107	706	131	18.5197657344679
487	121	219	203	154	0.0497922286346934
225	992	88	899	829	7.32354511414219
31	620	606	379	10	0.351605030997559
707	786	870	475	414	0.867872271102179
214	128	677	665	838	7.19577960001603
434	319	353	820	208	0.455419113777022 E
717	242	117	331	743	0.627891384536144 E
772	527	382	117	489	0.290825777531052 E
557	153	99	901	503	7.77634571546704
815	11	95	799	539	0.0608816062856895
165	643	480	430	276	20.3427230012221
446	995	870	941	14	0.346003898676197
299	531	476	380	168	0.0505883899839344
102	75	331	706	157	40.2141440796259
832	709	643	67	88	0.18818407962133
137	673	562	323	855	0.74547983310613
221	911	922	426	192	20.9011627833055
510	804	222	795	365	0.172980221306903 F
340	740	811	78	899	0.537865128036082 F
487	301	359	452	945	0.251120670144539 F
750	645	695	309	560	25.1537585368793
401	671	196	848	920	0.983202687573594
575	494	167	741	107	0.837711069447561
93	297	372	618	614	1.00093896713598
908	459	813	375	855	0.111728913152564 G
369	611	176	942	113	0.772134467399305 G
519	290	880	89	806	0.536039947897637 G
708	61	18	52	17	7.33673144275103

612	929	206	719	740	2.72347266845629
874	558	265	476	578	0.109725979086273
70	997	667	925	641	2.28698224845433
925	763	346	616	26	0.853339453758998
43	92	291	332	181	0.41263377214823
279	819	468	667	173	3.20747266086766
18	668	639	401	990	3.29859719394745
11	213	165	939	928	0.867072111229782
759	768	155	342	745	2.26574803101855
462	565	943	488	103	0.0537623029083861
663	428	503	230	303	1.92170022367748
591	8	347	232	290	0.778499050038353
43	364	459	585	386	1.24135220124881
289	457	722	955	300	5.33333333246356
465	305	92	548	498	1.76340110878688
418	191	847	828	547	1.27895981074832
87	788	472	727	703	0.660937500101529
699	292	98	684	259	0.763723150412029
173	198	645	968	663	1.55185185165601
492	764	25	850	469	0.0663472171248185
737	795	545	569	432	18.7103448197848
245	884	555	319	553	0.177406199085499 A
234	769	631	521	504	0.474733785111389 A
314	82	443	402	168	0.824816352608334 A
351	103	899	807	516	1.39341344012573
210	265	569	280	395	2.34184471065311
494	301	553	631	838	0.466569414077817
64	18	156	568	131	3.45630252061313
346	471	683	144	64	1.04753521125958
228	104	260	247	675	0.267294117680075
213	466	159	418	785	3.68603642626683
144	678	515	349	158	0.756561679820635
713	258	365	357	701	2.39622641467362
846	205	258	659	92	1.25196850384195
384	943	200	331	659	0.401581027758642
980	275	843	826	819	0.610816030938958
239	85	314	36	648	0.663144412444624
312	163	960	453	222	2.84685505892986
413	466	720	638	216	0.133845778448748
65	484	609	72	113	0.214583060613835
458	293	272	422	788	102.125668397449
277	673	707	825	218	0.590837282904285 B
312	886	765	923	4	0.0806472162283277 B
478	893	100	624	565	0.534855195917482 B
76	236	862	280	84	2.17568569307248
961	400	942	235	666	1.06674047129321
453	849	958	788	700	0.204972769714397
987	981	649	830	491	26.2983802175361
188	816	918	462	962	3.17886178748628
31	55	747	478	509	0.175797999122416

162	529	161	135	719	0.365424791107465
412	849	389	985	302	1.11903370348282
36	295	623	276	913	4.15964343549043
321	820	599	704	382	0.049977724684358
481	827	878	39	695	6.92594670375171
160	563	220	769	844	0.365491080594812
742	321	41	901	899	0.286857042029539
332	574	788	168	929	4.65858336749101
878	947	558	736	453	0.835795259364708
994	801	609	493	540	0.739332881819405
340	944	727	954	173	18.485133015099
517	803	467	474	531	0.102782692644657
837	675	718	158	959	1.0150204081628
311	153	177	577	895	0.207697524589672
790	432	896	125	816	29.9999999943631
993	597	645	101	938	0.248295024032328
871	498	932	457	559	4.70190023668747
519	693	607	270	665	0.165944028411456
160	860	236	180	568	0.692790824694028
295	880	986	570	785	1.14976452118851
119	153	1	481	634	1.38418079094452
231	720	105	765	360	0.306228373711272
618	535	158	155	863	1.29629949106752
599	895	582	92	479	13.6068075089005
79	705	36	673	827	0.0255955778588101
935	473	522	849	979	21.5032299716352
205	443	959	585	810	0.376367614908676
322	801	160	64	16	1.98984034823931
874	771	444	883	606	0.459946595483596
287	366	151	581	868	13.5770392676442
567	989	875	56	917	0.490370370515057 C
395	434	772	799	91	0.24368231052164 C
368	41	53	692	530	0.427799227816097 C
192	596	666	684	357	0.165073295096408 C
128	812	907	345	87	30.3129829941338
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